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Jersey ornithology, and also with a glossary of the technical terms used. The numerous plates are taken from a variety of sources, mostly from the works of Audubon or Wilson, tho there are some photographs of museum specimens, and many drawings by Fuertes and Horsfall, which, however, have already appeared elsewhere. Typographically the work appears to be excellent, so much so that the curious blunder by which the name *Vermivora leucobronchialis* is attached to two species on the same page (Brewster Warbler and Lawrence Warbler), strikes one with additional force.—H. S. S.

THE BIRDS OF THE LEEWARD ISLANDS, CARIBBEAN SEA, by CHARLES B. CORY, Curator of Department of Zoology (=Field Museum of Natural History, Publication No. 137. Ornithological Series, Vol. 1, No. 5, pp. 193-255, 1 plate (map), Chicago, October, 1909). Tho based primarily upon collections of birds made for the Field Museum by Dr. N. Dearborn and Mr. John F. Ferry, in 1908 and 1909, this report may be taken as a summary of all ornithological work done upon the Leeward Islands up to the present time. Each of the eleven islands, or groups of islands, is treated separately, and in each case the list of birds is preceded by a bibliography of the ornithological literature pertaining to the place; while thruout the paper pertinent comment is made upon the results attained by previous workers in the field, as compared with the collection in hand. No less than eight new species and sub-species are described—*Coereba lowii* and *Dendroica ruficapilla obscura* from Los Roques Islands, *Conurus aeruginosus tortugensis*, *Tiaris tortugensis*, and *Coereba ferryi* from Tortuga, *Holquiscalus orquillensis* from Los Hermanos, and *Conurus neoxenus* and *Platycichla venezuelensis atra* from Margarita.—H. S. S.

MINUTES OF COOPER CLUB MEETINGS

NORTHERN DIVISION

SEPTEMBER.—The September meeting of the Northern Division of the Club was held in the lecture room of the Museum of Vertebrate Zoology on the evening of September 30, with the following members present:

J. Grinnell, R. Wheeler, W. F. Sampson, W. B. Sampson, H. F. Duprey, M. S. Ray, H. S. Swarth, W. P. Taylor, O. Heinemann, H. W. Carriger, E. W. Gifford, Joseph Dixon, and Miss Alexander, while Miss Kellogg, and Mr. Storer were present as visitors.

The meeting was called to order at 8:30 with Vice-President W. P. Taylor in the chair. Minutes of the previous meeting were read and approved as read. The application of J. Claire Wood, Detroit, Mich., proposed by Mr. Grinnell,

was presented and laid over till our next meeting. On motion duly carried the Secretary was instructed to cast the unanimous ballot of those present electing to active membership those whose names were presented at our last meeting. Mr. Emerson's report which was presented at the last meeting was again laid over for one meeting. A report from Mr. Lee Chambers who was a committee of one to finance the publishing of Avifauna no. 5 was read, and on motion the same was accepted. The Secretary was instructed to write Mr. Chambers thanking him on behalf of the Club for the excellent work done in securing the necessary funds for publishing this Avifauna.

Mr. H. S. Swarth gave a very interesting talk about his recent trip to southeastern Alaska. By means of a launch he was able to visit many of the islands of the coast, and a good collection of birds and mammals was secured. The scarcity of birds in certain sections of the country was very noticeable. The islands are all heavily wooded and as they rise abruptly from the water, traveling was at times very difficult. A curious Indian legend relative to the hooting of the Sooty Grouse was related by Mr. Swarth. The Indians believe that the Raven is the lord of all the birds, and also that at one time both the Sooty and Spruce Grouse hooted, thus making a great noise in the woods. The Raven did not fancy so much noise so he forbade the Spruce Grouse to do any hooting and it has forever since remained silent.

Mr. M. S. Ray presented a paper on "A Defense of Oology" (see this issue of the CONDOR, page 19) and the same was discussed by those present. Adjourned.

H. W. CARRIGER, *Secretary*

SOUTHERN DIVISION

FEBRUARY.—The February meeting was called to order by President Morcom at the City Hall, Los Angeles, Thursday evening, February 25, 1909, with members John Lewis Childs, H. J. Lelande, George Willett, W. Lee Chambers, O. W. Howard, Howard Robertson, P. I. Osburn, Chester Lamb, V. W. Owen, Willard Chamberlain, Howard Wright and J. E. Law present.

The minutes of the last meeting, Jan. 28, 1909, were read and approved. The following applications for membership were presented: J. A. Munk, Los Angeles, proposed by W. Lee Chambers; Lawrence Huey, San Diego, proposed by F. Stephens; Miss Elizabeth Day Palmer, Los Angeles, proposed by W. Lee Chambers; D. I. Shepardson, Los Angeles, proposed by O. W. Howard; and R. M. Perez, Los Angeles, proposed by O. W. Howard.

The resignations of Mr. C. L. Newcombe and

Mr. C. F. Palmer were accepted, and Mr. A. F. Roberts was elected to active membership. The chair was instructed to appoint a committee of three to investigate a plan of extension of the scope of the Club and the CONDOR, so that an eastern membership would be a feature. The chair appointed, on the suggestion of Mr. Robertson, Messrs. Morcom, Law and Chambers.

Four papers were read, which have subsequently appeared in the CONDOR. Adjourned.
J. E. LAW, *Secretary*.

MARCH.—The March meeting was called to order by President Morcom at the City Hall, Los Angeles, Thursday evening, March 25, 1909, with members O. W. Howard, H. J. Lelande, E. H. Skinner (of the Northern Division), Chester Lamb, Howard Robertson, L. A. Test, W. L. Chambers, P. I. Osburn, Alphonse and Antonin Jay, Willard Chamberlain, V. W. Owen, A. F. Roberts and Prof. L. H. Miller present. Mr. H. Robertson was appointed Secretary pro tem.

The minutes of the last meeting Feb. 25, 1909, were read and approved. Miss Elizabeth Day Palmer, Los Angeles, and Messrs. J. A. Munk, Los Angeles, Lawrence Huey, San Diego, D. I. Shepardson, Los Angeles, and R. M. Perez, Los Angeles, were elected to active membership.

A paper by Isaac Motes of Kansas City, Mo., "In Defense of the English Sparrow" was read and discust.

HOWARD ROBERTSON, *Sec'y, pro tem*.

APRIL.—The April meeting was called to order by President Morcom at the City Hall, Los Angeles, Thursday evening, May 9, 1909, with members, H. J. Lelande, O. W. Howard, W. Lee Chambers, H. Robertson, Alphonse Jay, W. Chamberlain and J. E. Law present. The minutes of the last meeting, Mar. 25, 1909, were read and approved, the resignation of Mr. Carroll Scott of San Diego was accepted with regret, and, on motion by Mr. Robertson, seconded by Mr. Chambers and carried unanimously, Dr. C. Hart Merriam was elected to honorary membership in the club, subject to approval of the northern division. Adjourned.

J. EUGENE LAW, *Secretary*.

MAY.—The May meeting was called to order by President Morcom at the City Hall, Los Angeles, Thursday evening, May 27, 1909, with members H. J. Lelande, George Willett, O. W. Howard, C. B. Linton, Willard Chamberlain, Howard Robertson, Evan Davis, Otto J. Zahn, Alphonse and Antonin Jay present. The minutes of the last meeting, May 6, 1909, were read and approved. The balance of the evening was spent in general discussion. Adjourned.

HOWARD ROBERTSON, *Sec'y, pro tem*.

OUTING MEETING.—The annual outing meeting of the Southern Division was called to order by Vice-President Harry J. Lelande on July 7, 1909, on board the good ship Flyer somewhere between Santa Barbara and San Nicolas islands, with the following members present: O. W. Howard, W. B. Judson, A. P. Howard, H. J. Lelande, C. B. Linton, Otto J. Zahn, Antonin Jay, Chester Lamb and Howard Robertson; also the following as visitors: C. A. Caldwell, H. A. Gaylord, H. F. Hossick, Emerson Knight, H. Linton, H. N. Lowe, W. S. McQuilling, Capt. Graves, Mate Grannis, and Cook Vic.

Secretary Law being absent Howard Robertson was elected Secretary pro tem.

Mr. C. B. Linton proposed the names of Herbert N. Low and W. S. McQuilling, and O. W. Howard proposed the name of H. A. Gaylord for membership.

The party left Long Beach on Friday evening, July 2, for a three days' trip to Santa Barbara and San Nicolas islands. Santa Barbara Island was first visited, the party arriving early Saturday morning; and most of the day was spent on the island where the gull and auklet colonies were examined. Many young of the Western Gull were seen running about the nesting colonies. None of the young observed were able to fly, but all used their legs to good advantage. Two nests of the Western Gull, containing two eggs each, were found but as they appeared to be badly incubated they were not molested. A nest and four eggs of the Island Horned Lark was taken by Mr. Antonin Jay and Mr. Lelande reported finding the San Clemente House Finch breeding.

Leaving Santa Barbara Island about 3 p. m. the trip was made to San Nicolas Island, reaching the sand spit at the southeast end of the island about 8 p. m. Sunday, July 4, was spent on the island by most of the party, some of whom walked around the island and examined the Cormorant rookeries and the Indian burial grounds. On returning to the landing it was found that the sea was so rough that it would be impossible to land a skiff, so all hands turned to and collected firewood, and were soon comfortable with a roaring fire in one of the caves above the tide line. A hearty repast was made from one five cent package of chewing gum, and while a more substantial meal would have been appreciated by the 11 left on shore, no one complained of the lack of food; but all were unanimous in their desire for drinking water. However, no one suffered, all taking it good naturedly as tho it was part of the days' work. Monday morning, the wind having gone down, the skiff was landed easily and we reached the launch with little trouble. After a hearty breakfast, much enjoyed by all, Mr. Linton and O. W. Howard returned to shore

to find Linton's father who was camping at Northwest Harbor. We expected this would take but a short time, but, as it developed, it took all day, and as the wind again blew as strong as the day before, they were compelled to stay all night on shore.

On Tuesday, July 6, after picking up Linton and Howard we started for Northwest Harbor and there found Linton, Sr., and, after taking him aboard, started for Long Beach, which was reached about 10 p. m.

Many birds were found on both islands. On Santa Barbara Island several nesting colonies were visited of both Western Gull and Cassin Auklet, while on San Nicolas Island many gulls and cormorants were found, but no auklet burrows were discovered. A large number of Island Horned Larks, San Clemente House Finches, and a song sparrow of some species were noted on both islands.

Eighteen species of birds were seen on Santa Barbara Island, and fourteen on San Nicolas, besides six additional species observed at sea.

HOWARD ROBERTSON, *Sec'y, pro tem.*

SEPTEMBER.—An informal meeting of the Cooper Ornithological Club was called to order by Vice-President Lelande in the Clerk's Office, City Hall, Los Angeles, Thursday evening, Sept. 2, 1909, with members Evan Davis, Wm. B. Judson, Pingree I. Osburn, Chester C. Lamb, Howard Robertson, Prof. Loye Holmes Miller, H. J. Lelande, Ozra W. Howard, Antonin Jay, Alphonse Jay, W. Lee Chambers, Geo. Willett, and J. E. Law present, and, as a guest, Dr. A. K. Fisher, who is in charge of the Economic Investigations of the Bureau of Biological Survey, United States Department of Agriculture.

The evening was spent in an informal talk by Dr. Fisher, outlining his work. Interesting data was given in regard to extensive experiments for extermination of destructive rodents. Interesting data concerning bird destruction was presented. The Smithsonian Institution has accumulated from the entire world 225,000 bird skins in 55 years. Careful data indicates that in one storm more than 2,000,000 birds were destroyed in an area of 20 miles, and yet subsequent years showed no apparent decrease in the number of individuals of the species killed in this area. Some years ago, the Bluebird was almost exterminated in the eastern states by severe weather. In a few years the Bluebird was as abundant as ever. Statistics prove that the domestic cat destroys more birds than all natural enemies combined. These statistics bear directly on the tendency to-day of so restricting ornithologists that intelligent research is almost prohibited. The 5,000 or 10,000 birds accumulated in a life-time by the average sincere ornithologist can make no impression whatever on the bird population. It

seems only reasonable that ornithologists be protected in their collecting privileges. Adjourned.

J. EUGENE LAW, *Secretary.*

SEPTEMBER.—The September meeting was called to order by President Morcom, with members W. Lee Chambers, Will Judson, Dr. J. A. Munk, Howard Robertson, Prof. Loye Holmes Miller, Otto Zahn, Antonin Jay, Chester Lamb, Willard Chamberlain, Pingree I. Osburn and J. E. Law present.

The minutes of the June outing meeting were read and approved, and Messrs. Low, McQuilling and Gaylord proposed at the June meeting were elected to active membership.

Applications for membership were presented as follows: Merrill W. Blain, Tropic, Cal., by W. Lee Chambers; Chas. Camp, Sierra Madre, Cal., by J. Grinnell; Lawrence Peyton, Sespe, Cal., by W. Lee Chambers; Adriaan Van Rossem, Pasadena, Cal., by J. Grinnell.

The resignation of Mrs. Mary G. Donnelly was accepted with regret on motion by Mr. Miller. Mr. W. Lee Chambers read his report as committee for raising of funds for Avifauna No. 5, and on motion by Mr. Robertson, seconded by Mr. Chamberlain, the report was accepted, and ordered spread upon the minutes.

Six hundred copies of Avifauna No. 5 were printed, at a total cost of \$431.40, as follows: Nace Printing Co. \$364.20; ½ mailing envelopes \$7.00; 1 M stamped envelopes \$21.12; Postage \$33.58; 1 M letterheads \$5.50; total, \$431.40. Total amount subscribed, \$451.00; balance on hand \$19.60, turned into CONDOR fund.

Avifaunas nos. 5 and 6 were mailed together, thus making the postage item higher by about seven dollars than it would otherwise have been. This amount should have come out of the Avifauna no. 6 fund.

In closing Mr. Chambers thanked the Club members, and some others who are not members, for the liberal manner in which they assisted in the publication of this, the largest single work that the Club has yet attempted. Three papers were read by the secretary.

J. E. LAW, *Secretary.*

OCTOBER.—The October meeting of the Southern Division of the Cooper Club was held on Thursday evening, October 28, 1909, at Room 1, City Hall. The meeting was called to order by President Morcom, with the following members present: Messrs. Morcom, Lelande, Alphonse Jay, Antonin Jay, Zahn, Lamb, Miller, Judson, Chambers, Robertson, and Lawrence Peyton; and with Mr. H. J. Kofahl present as a visitor.

In the absence of Secretary Law, Howard Robertson was elected Secretary *pro tem.*

The minutes of the September meeting were read and approved, and Messrs. Blain, Camp,

Peyton and Van Rossem, proposed at the September meeting, were elected to active membership. The following names were proposed for membership: Mr. H. J. Kofahl, Hollywood, Calif., by Mr. W. Lee Chambers; Dr. W. L. Holt, Banning, Calif., and Mr. W. W. Brown, Jr., San Diego, Calif., by Mr. J. Grinnell; and Mr. U. S. Grant, Jr., (4th), San Diego, Calif., by Chapman Grant.

On motion of Mr. Chambers, seconded by Mr. Lelande, the following motion was unanimously adopted: That future meetings of the Southern Division be held on the last Thursday of each month (excepting the months of June, July and August when no meetings shall be held), at Room 1 of the City Hall at Los Angeles, and a notice thereof be published in the CONDOR.

Mr. Chambers discuss the question of obtaining permits from the State Board of Fish Commissioners for the collecting of specimens for scientific purposes; and on motion of Mr. Miller, seconded by Mr. Lelande, and duly adopted, the President was authorized to appoint a committee of three to confer with the Fish Commissioners, or their representatives, at Los Angeles, with relation to the granting of such permits. The President appointed Messrs. Robertson, Chambers and Lelande as such committee. Four papers were read. Adjourned.

HOWARD ROBERTSON, *Secretary, pro tem.*

NOVEMBER.—The November meeting of the Southern Division of the Cooper Club was held on Thursday evening, December 2, 1909, at Room 1, City Hall. The meeting was called to order by President Morcom, with the following members present: Messrs. Lelande, Howard, Miller, Robertson, Willett, Antonin Jay, Alphonse Jay, Wright, Van Rossem, Shephardson, Perez, and Law.

The minutes of the October meeting were read and approved, and Messrs. Kofahl, W. L. Holt, W. W. Brown and U. S. Grant, Jr., 4th, were elected to active membership. Adjourned.

J. EUGENE LAW, *Secretary.*

DECEMBER.—The December meeting of the Southern Division of the Cooper Ornithological Club was held on Thursday evening, December 30, 1909, at Room 1, City Hall. The meeting was called to order by President Morcom, with the following members present: Messrs. A. M. Ingersoll, A. B. Howell, R. M. Barnes, Evan Davis, Judson, Shephardson, Perez, Blain, Wright, Owen, Robertson, Lelande, Willett, Chambers, Antonin Jay, Alphonse Jay, and Law; and as visitor, Mr. F. H. Stith. The minutes of the November meeting were read and approved. The name of Allyn G. Smith, Redlands, California, was proposed for membership by Mr. Chambers.

On motion by Mr. Willett, seconded by Mr. Lelande, and duly carried, the resignation of Wm. A. Bryan, of Honolulu, H. I., was accepted with regret.

The Club then proceeded to nominate officers for 1910, and nominations were made, as follows: President, G. Frean Morcom, proposed by Mr. Robertson; Vice-President, H. J. Lelande, proposed by Mr. Willett; Secretary, J. E. Law, proposed by Mr. Shephardson; Treasurer, W. L. Chambers, proposed by Mr. Willett.

The committee appointed to interview the Game Warden with regard to permits for club members reported that the attitude of the Board of Fish Commissioners is reasonably liberal, and that those who want permits for the serious purpose of bird study, will have little trouble in obtaining them. The Board of Fish Commissioners, however, will not countenance any abuses of the permits, and asks that the Club co-operate in minimizing bird slaughter. On motion made by Mr. Robertson, seconded by Mr. Lelande, and duly carried, the Secretary was instructed to write Mr. Grinnell concerning progress on the Los Angeles County list; and to see if Mr. Grinnell cannot in the very near future get the manuscript ready for publication as an Avifauna. The Southern Division feels confident that it will be able to finance such a publication thru private subscription.

Two papers were read by the Secretary, one written by Mr. J. W. Preston—"Notes on the Northwestern Crossbill"; and the other by Mr. J. Grinnell—"A new Cowbird of the Genus *Molothrus*." Mr. R. Magoon Barnes, one of our Eastern members, of Lacon, Ill., gave a short talk of decided interest to the members, dwelling particularly on his aviary of wild ducks. The members plied Mr. Barnes with questions, and he very good-naturedly answered them all.

Mr. Barnes has succeeded in raising a large number of wild ducks from the eggs; and, in keeping them in confinement, he finds the Wood-duck easiest, but Mallard, Black Mallard and all pond-ducks readily adjust themselves to domestic conditions, and become very tame. He has also raised the Wild Geese, and finds them all fairly sensible, excepting the Canada Geese, which, he says, have not sense enough to go under shelter even when the thermometer is 20 degrees below zero. He says they seem to pick the coldest, windiest spot they can find, and just stay there. No artificial heat is required until the thermometer goes beyond 10 degrees below zero; and in the very cold weather, that is when more that 20 degrees below, the ducks are not allowed to go into water. Dampness seems to be a great deal more fatal than cold. Adjourned.—J. E. LAW, *Secretary.*